



1600

**ENTERED**

**RAW SEQUENCE LISTING**

PATENT APPLICATION: US/09/651,150B

DATE: 11/16/1962

## ANSWER: 2000

Input Set : D:\seqlist.txt

Output Set: N:\CRF4\11082002\I651150B.raw

5 <116> APPLICANT: Payan, Ronald  
9 <120> TITLE OF INVENTION: TOSO AS A TARGET FOR DRUG SCREENING  
13 <130> FILE REFERENCE: RIGL-003CON  
17 <140> CURRENT APPLICATION NUMBER: US 09/651,150B  
19 <141> CURRENT FILING DATE: 2010-08-30  
23 <150> PRIOR APPLICATION NUMBER: US 09/050,861  
27 <151> PRIOR FILING DATE: 1998-03-30  
29 <160> NUMBER OF SEQ ID NO: 31  
33 <170> SOFTWARE: PatentIn version 3.1  
37 <210> SEQ ID NO: 1  
39 <211> LENGTH: 1911  
41 <212> TYPE: DNA  
43 <213> ORGANISM: Homo sapiens  
47 <400> SEQUENCE: 1

**RAW SEQUENCE LISTING**

PATENT APPLICATION: US/09/651,150B

TABLE 1. - *Continued.*

Input file : D:\seqlist.txt

Output Set : N:\CRF4\11082002\I651150B.raw

106 a stet maa dedeettge ccttcatccaa atatcagac ttctatgtca acgactttttt  
 108 at tttttttt tttatccaa cttttttt atttatgtca tttttttt aaattttttt  
 110 cttatatgc atatatacc ataaattttc tttaatctgt ctccatctt t  
 112 s. 113 SEQ ID NO: 1  
 115 < 113> LENGTH: 195  
 117 < 113> TYPE: PRT  
 118 < 113> ORGANISM: Homo sapiens  
 119 < 113> SEQUENCE:  
 120 Met Asp Arg Trp Ile Trp Pro Leu Tyr Phe Leu Pro Val Ser Gly Ala  
 121 1 9 10 11  
 122 Leu Arg Ile Leu Pro Glu Val Lys Val Glu Gly Glu Leu Gly Gly Ser  
 123 16 25 30  
 124 Val Thr Ile Lys Cys Pro Leu Pro Glu Met His Val Arg Ile Tyr Leu  
 125 31 40 45  
 126 Cys Arg Glu Met Ala Gly Ser Gly Thr Cys Gly Thr Val Val Ser Thr  
 127 50 55 60  
 128 Thr Asn Phe Ile Lys Ala Glu Tyr Lys Gly Arg Val Thr Leu Lys Glu  
 129 61 70 75 80  
 130 Tyr Pro Arg Lys Asn Leu Phe Leu Val Glu Val Thr Gln Leu Thr Glu  
 131 81 90 95  
 132 Ser Asp Ser Gly Val Tyr Ala Cys Gly Ala Gly Met Asn Thr Asp Arg  
 133 100 105 110 115  
 134 Gly Lys Thr Gln Lys Val Thr Leu Asn Val His Ser Glu Tyr Glu Pro  
 135 115 120 125  
 136 Ser Trp Glu Glu Gln Pro Met Pro Glu Thr Pro Lys Trp Phe His Leu  
 137 130 135 140  
 138 Pro Tyr Ile Ile Gln Met Pro Ala Tyr Ala Ser Ser Ser Lys Ile Val  
 139 145 150 155 160  
 140 Thr Arg Val Thr Thr Pro Ala Gln Arg Gly Lys Val Pro Pro Val His  
 141 165 170 175  
 142 His Ser Ser Pro Thr Thr Gln Ile Thr His Arg Pro Arg Val Ser Arg  
 143 180 185 190  
 144 Ala Ser Ser Val Ala Gly Asp Lys Pro Arg Thr Phe Leu Pro Ser Thr  
 145 195 200 205  
 146 Thr Ala Ser Lys Ile Ser Ala Leu Glu Gly Leu Leu Lys Pro Gln Thr  
 147 210 215 220  
 148 Pro Ser Tyr Asn His His Thr Arg Leu His Arg Gln Arg Ala Leu Asp  
 149 225 230 235 240  
 150 Tyr Gly Ser Gln Ser Gly Arg Glu Gly Gln Gly Phe His Ile Leu Ile  
 151 245 250 255  
 152 Pro Thr Ile Leu Gly Leu Phe Leu Leu Ala Leu Leu Gly Leu Val Val  
 153 260 265 270  
 154 Lys Arg Ala Val Glu Arg Arg Lys Ala Leu Ser Arg Arg Ala Arg Arg  
 155 275 280 285  
 156 Leu Ala Val Arg Met Arg Ala Leu Glu Ser Ser Gln Arg Pro Arg Gly  
 157 290 295 300  
 158 Ser Pro Arg Ile Arg Ser Gln Asn Asn Ile Tyr Ser Ala Cys Pro Arg  
 159 305 310 315  
 160 Arg Ala Arg Gly Ala Asp Ala Ala Gly Thr Gly Gln Ala Pro Val Pro

## RAW SEQUENCE LISTING

PARENT APPLICATION: US/09/651,150B

DATE: 11/08/2002

TIME: 10:17 :17

Input Set : D:\seqlist.txt

Output Set : N:\CRF4\11082002\I651150B.raw

206                825                330                441  
 209 Gly Pro Gly Ala Ile Leu Pro Pro Ala Pro Leu Gln Val Ser Thr Ser  
 210                845                345                455  
 213 Pro Trp Leu His Ala Pro Ser Leu Lys Thr Ser Cys Glu Tyr Val Ser  
 214                865                360                465  
 217 Ile Tyr His Gln Ile Ala Ala Met Met Glu Asp Ser Asp Ser Asp Arg  
 218                875                375                480  
 221 Tyr Ile Asn Val Pro Ala  
 222 385                395  
 225 <10> SEQ ID NO: 3  
 227 <11> LENGTH: 75  
 229 <12> TYPE: PPT  
 231 <13> ORGANISM: Homo sapiens  
 235 <400> SEQUENCE: 3  
 236 Val Thr Ile Lys Cys Pro Leu Pro Glu Met His Val Arg Ile Tyr Leu  
 237 1                5                10                15  
 241 Cys Arg Glu Met Ala Gly Ser Gly Thr Cys Gly Thr Val Val Ser Thr  
 242                20                25                30  
 245 Thr Asn Phe Ile Lys Ala Glu Trp Lys Gly Arg Val Thr Leu Lys Glu  
 246                35                40                45  
 249 Tyr Pro Arg Lys Asn Leu Phe Leu Val Glu Val Thr Gln Leu Thr Glu  
 250                50                55                60  
 253 Ser Asp Ser Gly Val Tyr Ala Cys Gly  
 254 65                70  
 257 <10> SEQ ID NO: 4  
 259 <11> LENGTH: 79  
 261 <12> TYPE: PPT  
 263 <13> ORGANISM: Homo sapiens  
 267 <400> SEQUENCE: 4  
 268 Leu Ser Ile Thr Cys Thr Val Ser Gly Ser Thr Phe Ser Asn Asp Tyr  
 269 1                5                10                15  
 273 Tyr Thr Trp Val Arg Gln Pro Pro Gly Arg Ile Glu Trp Ile Gly  
 274                20                25                30  
 277 Tyr Val Phe Tyr His Gly Thr Ser Asp Asp Thr Thr Pro Leu Arg Ser  
 278                35                40                45  
 281 Arg Val Thr Met Leu Val Asp Thr Ser Lys Asn Gln Phe Ser Leu Arg  
 282                50                55                60  
 285 Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala  
 286 65                70                75  
 289 <10> SEQ ID NO: 5  
 291 <11> LENGTH: 75  
 293 <12> TYPE: PPT  
 295 <13> ORGANISM: Homo sapiens  
 299 <400> SEQUENCE: 5  
 301 Val Thr Ile Thr Cys Arg Ser Ser Thr Gly Ala Val Thr Thr Ser Asn  
 302 1                5                10                15  
 305 Tyr Ala Asn Trp Val Gln Gln Lys Pro Asp His Leu Phe Thr Gly Ile  
 306                25                30                35  
 309 G.y Gly Thr Asn Asn Arg Ala Pro Gly Val Pro Ala Arg Phe Ser Gly

## RAW SEQUENCE LISTING

PARENT APPLICATION: US/09/651,150B

DATE: 11/08/2002

TIME: 11:51:17

Input Set : D:\seqlist.txt

Output Set : N:\CRF4\11082002\I651150B.raw

316        37                  40                  45  
 317 Ser Leu Ile Gly Asn Lys Ala Ala Leu Thr Ile Thr Gly Arg Gln Thr  
 318        46                  50                  60  
 319 Glu Arg Ala Asn Ile Tyr Ile Cys Ala  
 320 65                  70  
 321 <210> SEQ ID NO: 6  
 322 <211> LENGTH: 71  
 323 <212> TYPE: PRT  
 324 <213> ORGANISM: Homo sapiens  
 325 <400> SEQUENCE: 6  
 65 Thr Ser Leu Asn Cys Thr Phe Ser Asp Ser Ala Ser Gln Tyr Ile Tri  
 326 1                  10                  15  
 327 Trp Tyr Arg Gln His Ser Gly Lys Ala Pro Lys Ala Leu Met Ser Ile  
 328        20                  25                  30  
 329 Phe Ser Asn Gly Gln Lys Glu Gln Gly Arg Ile Thr Ile His Leu Asn  
 330        35                  40                  45  
 331 Lys Ala Ser Leu His Phe Ser Leu His Ile Arg Asp Ser Gln Ile Ser  
 332        50                  55                  60  
 333 Asp Ser Ala Leu Tyr Leu Cys Ala  
 334 65                  70  
 335 <210> SEQ ID NO: 7  
 336 <211> LENGTH: 71  
 337 <212> TYPE: PRT  
 338 <213> ORGANISM: Homo sapiens  
 339 <400> SEQUENCE: 7  
 65 Val Thr Leu Arg Cys Lys Pro Ile Ser Gly His Asn Ser Leu Phe Tri  
 340 1                  10                  15  
 341 Tyr Arg Gln Thr Met Met Arg Gln Leu Glu Leu Leu Ile Tyr Ile Asn  
 342        20                  25                  30  
 343 Asn Asn Val Pro Ile Asp Asp Ser Gly Met Pro Glu Asp Arg Phe Ser  
 344        35                  40                  45  
 345 Ala Lys Met Pro Asn Ala Ser Phe Ser Thr Leu Lys Ile Gln Pro Ser  
 346        50                  55                  60  
 347 Glu Pro Arg Asp Ser Ala Val Tyr Phe Cys Ala  
 348 65                  70                  75  
 349 <210> SEQ ID NO: 8  
 350 <211> LENGTH: 74  
 351 <212> TYPE: PRT  
 352 <213> ORGANISM: Homo sapiens  
 353 <400> SEQUENCE: 8  
 65 Val Glu Leu Thr Cys Thr Ala Ser Gln Lys Lys Ser Ile Gln Ile His  
 354 1                  10                  15  
 355 Trp Lys Asn Ser Asn Gln Ile Lys Ile Leu Gly Asn Gln Gly Ser Phe  
 356        20                  25                  30  
 357 Leu Thr Lys Gly Pro Ser Lys Leu Asn Asp Arg Ala Asp Ser Arg Arg  
 358        35                  40                  45  
 359 Ser Leu Tri Asp Gln Gly Asn Phe Pro Ile Ile Ile Lys Asn Leu Lys  
 360        50                  55                  60  
 361 Ile Glu Asp Ser Asp Thr Tyr Ile Cys Gln

## RAW SEQUENCE LISTING

INVENTION APPLICATION: US/09/651,150B

DATE: 11/08/2002

TIME: 11:17:01

&lt;input&gt; : D:\seqlist.txt

&lt;output&gt; : N:\CRF4\11082002\I651150B.raw

414 <6> 16  
 415 <210> SEQ ID NO: 9  
 416 <211> LENGTH: 86  
 417 <212> TYPE: PRT  
 418 <213> ORGANISM: Homo sapiens  
 419 <400> SEQUENCE: 9  
 420 Ala Lys Met Ser Cys Glu Ala Lys Thr Phe Pro Lys Gly Thr Thr Ile  
 421 10 15  
 422 Tyr Trp Leu Arg Glu Leu Gln Asp Ser Asn Lys Asn Lys His The Gln  
 423 20 25 30  
 424 Phe Leu Ala Ser Arg Thr Ser Thr Lys Gly Ile Lys Tyr Gly Gln Arg  
 425 35 40 45  
 426 Val Lys Tyr Asn Met Thr Leu Ser Phe Asn Ser Thr Ieu Ile The Leu  
 427 50 55 60  
 428 Lys Ile Met Asp Val Lys Pro Glu Asp Ser Gly Ile Tyr The Cys Ala  
 429 65 70 75 80  
 430 <210> SEQ ID NO: 10  
 431 <211> LENGTH: 76  
 432 <212> TYPE: PRT  
 433 <213> ORGANISM: Homo sapiens  
 434 <400> SEQUENCE: 10  
 435 Val Thr Ile Thr Cys Pro Phe Thr Tyr Ala Thr Arg Gln Leu Lys Lys  
 436 1 5 10 15  
 437 Ser Phe Tyr Lys Val Glu Asp Gly Glu Leu Val Leu Ile Ile Asp Ser  
 438 20 25 30  
 439 Ser Ser Lys Gln Ala Lys Asp Pro Arg Tyr Lys Gly Arg Ile Thr Leu  
 440 35 40 45  
 441 Gln Ile Gln Ser Thr Thr Ala Lys Glu Phe Thr Val Thr Ieu Lys His  
 442 50 55 60  
 443 Leu Gln Leu Asn Asp Ala Gly Gln Tyr Val Cys Gln  
 444 65 70 75  
 445 <210> SEQ ID NO: 11  
 446 <211> LENGTH: 84  
 447 <212> TYPE: PRT  
 448 <213> ORGANISM: Homo sapiens  
 449 <220> FEATURE:  
 450 <221> NAME/KEY: MISC\_FEATURE  
 451 <222> LOCATION: (6)..(51)  
 452 <223> OTHER INFORMATION: "Xaa" at positions 6-7, 9-18, 20, 25-32, 34-35, 37-48  
 and 50  
 453 <226> FEATURE:  
 454 <221> NAME/KEY: MISC\_FEATURE  
 455 <222> LOCATION: (53)..(53)  
 456 <223> OTHER INFORMATION: "Xaa" at position 53 can be Phe, Val, or Ile.  
 457 <226> FEATURE:  
 458 <221> NAME/KEY: MISC\_FEATURE  
 459 <222> LOCATION: (54)..(76)  
 460 <223> OTHER INFORMATION: "Xaa" at positions 54-65, 71, and 74-76 can be any amino acid.  
 461 <226> FEATURE:

RAW SEQUENCE LISTING ERROR SUMMARY  
PARENT APPLICATION: US/09/651,150B

DATE: 11-02-02  
TIME: 11:17 : 4

Input File: D:\seqlist.txt  
Output File: N:\CRF4\11082002\I651150B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:11; Xaa Pos: 6,11,9,10,11,12,13,14,15,16,17,18,19,22,24,26,27,28,29,30  
Seq#:11; Xaa Pos: 11,12,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,50,51,53  
Seq#:11; Xaa Pos: 54,55,56,57,58,59,60,61,62,63,64,65,71,73,74,75,76,79,80  
Seq#:11; Xaa Pos: 51  
Seq#:25; Xaa Pos: 1,4,5

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/651,150B

DATE: 01/07/2010

TIME: 11:17:44

Input Set : D:\seqlist.txt

Output Set : N:\CRF4\11082002\I651150B.raw

L:544 M:341 W: (4t) "n" or "Xaa" used, for SEQ ID#:11 after pos.:16  
L:548 M:341 W: (4t) "n" or "Xaa" used, for SEQ ID#:11 after pos.:16  
L:552 M:341 W: (4t) "n" or "Xaa" used, for SEQ ID#:11 after pos.:16  
L:556 M:341 W: (4t) "n" or "Xaa" used, for SEQ ID#:11 after pos.:16  
L:560 M:341 W: (4t) "n" or "Xaa" used, for SEQ ID#:11 after pos.:16  
L:564 M:341 W: (4t) "n" or "Xaa" used, for SEQ ID#:11 after pos.:16  
L:864 M:341 W: (4t) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0